| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|--|---|---------------------|---------|------------------|
| S1 | 5 | watermark\$5 and "wobble".ab. | US-PGPUB; USPAT | OR | OFF | 2006/05/13 15:44 |
| S2 | 10 | watermark\$5 and "wobble".ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/24 20:02 |
| S3 | 96 | watermark\$5 and "wobble" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/24 20:03 |
| S4 | . 14 | watermark\$5 and "wobble" and playback.ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/24 20:10 |
| S5 | 47 | watermark\$5 and "wobble" and (copy with control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/24 20:10 |
| S6 | 47 | watermark\$5 and "wobble" and (copy with control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/24 20:16 |
| S7 | 1 | watermark\$5 and "wobble" and (copy with control) and @py<"2001" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON . | 2005/03/24 20:11 |
| S8 | 13 | S6 and record\$5.ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/28 15:28 |

| S9 | 989 | 713/193.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/03 15:59 |
|------|-------------|---|---|----|------|------------------|
| S10, | 2932 | 713/200.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/03 15:59 |
| S11 | 1 | "6707774".pn. | UŞPAT | OR | OFF | 2005/09/27 16:33 |
| S12 | . 1 | "5901127".pn. | USPAT | OR | OFF | 2005/09/27 16:34 |
| S13 | . 1 | (prevent\$4 prohibit\$5) with (embed\$5 insert\$4) with (watermark\$2) with (playback) | USPAT | OR | OFF | 2005/09/27 16:36 |
| S14 | 0 | (prevent\$4 prohibit\$5) near2 (embed\$5 insert\$4) with (watermark\$2) with (playback) | USPAT | OR | OFF | 2005/09/27 16:36 |
| S15 | . 17 | (prevent\$4 prohibit\$5) near2 (embed\$5 insert\$4) with (watermark\$2) | USPAT | OR | OFF. | 2005/09/27 16:42 |
| S16 | 0 | (remov\$4 delet\$4 eras\$3) near3 (watermark\$2) with (playback adj data) | USPAT | OR | OFF | 2005/09/27 16:43 |
| S17 | 2 | (remov\$4 delet\$4 eras\$3) near3 (watermark\$2) with (playback) | USPAT | OR | OFF | 2005/09/27 16:44 |
| S18 | | (remov\$4 delet\$4 eras\$3) near3 (watermark\$2) with (playback) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/27 16:49 |
| S19 | 8 | (prevent\$4) near2 (embed\$5 insert\$5) near3 (watermark\$2) and playback | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/27 16:50 |
| S20 | 59 · · · | (prevent\$4) near2 (embed\$5 insert\$5) near3 (watermark\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/27 17:04 |

| | | | | 1 | | |
|-----|------|--|--|----|------|------------------|
| S21 | 958 | 380/201-204.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/23 16:28 |
| S22 | 253 | 380/201-204.ccls. and watermark\$ | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/27 17:05 |
| S23 | 186 | 380/201-204.ccls. and watermark\$ with (embed\$4 insert\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/27 17:05 |
| S24 | 1 | "6092201".pn. | USPAT | OR | OFF | 2006/05/06 18:37 |
| S25 | 56 | selectiv\$4 with (add\$4 embed\$4) with watermark\$2 | US-PGPUB; USPAT | OR | OFF | 2006/05/13 15:49 |
| S26 | 5 | selectiv\$4 with (add\$4 embed\$4) with watermark\$2 same (record\$4) | US-PGPUB; USPAT | OR | OFF | 2006/05/13 15:45 |
| S27 | 685 | determin\$2 with (add\$4 embed\$4) with watermark\$2 | US-PGPUB; USPAT | OR | OFF | 2006/05/13 15:49 |
| S28 | 1034 | 382/233.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:08 |
| S29 | 25 | 382/233.ccls. and (playback same record\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:39 |
| S30 | 13 | 382/233.ccls. and (embed\$5 insert\$5) near3 (watermark\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON . | 2007/04/21 13:02 |

| | | | <u> </u> | | | |
|-----|------|--|--|-----------------|----|------------------|
| S31 | 1146 | 382/100.ccls. and (embed\$5 insert\$5) near3 (watermark\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR _. | ON | 2007/04/21 13:06 |
| S32 | 2417 | 382/100.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:02 |
| S33 | 135 | 382/100.ccls. and (playback same record\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:04 |
| S34 | 1769 | 713/193.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:04 |
| S35 | 539 | 382/100.ccls. and (embed\$5 insert\$5) near3 (watermark\$2) and (RAM ROM) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:06 |
| S36 | 0 | 382/233.ccls. and (degrad\$7) with (playback) with (watermark) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:08 |
| S37 | 0 | 382/233.ccls. and (degrading degradation weak\$5) with (playback) with (watermark) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:08 |

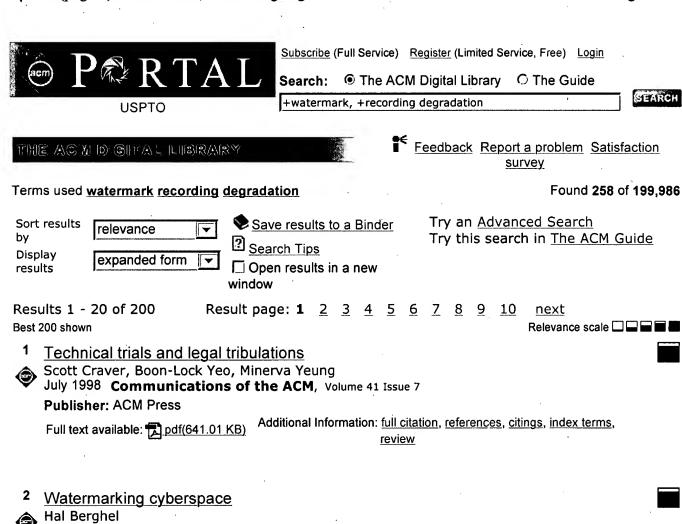
| S38 | 4 | 382/100.ccls. and (degrading degradation weak\$5) with (playback) with (watermark) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:09 |
|-----|------|--|--|----|-----|------------------|
| S39 | 2 | 713/176.ccls. and (degrading degradation weak\$5) with (playback) with (watermark) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:10 |
| S41 | 65 | watermark\$5 and "wobble" and (copy with control) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/21 13:11 |
| S42 | 1325 | 380/201-204.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/21 13:12 |
| S43 | 236 | 380/201-204.ccls. and (embed\$5 insert\$5) near3 (watermark\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/21 13:16 |
| S44 | 77 | (recording) same (playback) same (embedd\$4 near3 watermark\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/21 13:49 |
| S45 | 1122 | SAKO.in. with YOICHIRO | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/21 13:49 |
| S46 | 0 | SAKO.in. with YOICHIRO and (watermark).in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/21 13:50 |

| S47 | 8 | SAKO.in. with YOICHIRO and (watermark).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:08 |
|-----|------|--|---|----|----|------------------|
| S48 | 179 | INOKUCHI.in. with TATSUYA | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:08 |
| S49 | 4 | INOKUCHI.in. with TATSUYA and watermark.clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ΟN | 2007/04/23 14:09 |
| S50 | 228 | FURUKAWA.in. with SHUNSUKE | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:09 |
| S51 | 4 | FURUKAWA.in. with SHUNSUKE and watermark.clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:10 |
| S52 | 62 | sony.as. and watermark.clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:27 |
| S53 | 2360 | 713/176.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:27 |
| S54 | 1377 | 713/176.ccls. and (embed\$6 insert\$4 with watermark\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; | OR | ON | 2007/04/23 14:27 |
| | • | | EPO; JPO; | | | |

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| S55 | 939 | 380/201.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:38 |
| S57 | 10 | 382/276.ccls. and (playback same record\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 14:39 |
| S58 | 19 | 382/276.ccls. and watermark | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:07 |
| S59 | 40 | 713/193.ccls. and (watermark).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR . | ON | 2007/04/23 16:07 |
| S60 | 20 | 713/193.ccls. and (watermark).clm. and (record\$).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:12 |
| S61 | 168 | 713/176.ccls. and (watermark).clm. and (record\$).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:12 |
| S62 | 17 | 713/176.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:13 |

| S63 | 17 | 382/100.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:14 |
|-----|-----|---|--|----|----|------------------|
| S64 | 0 | 382/233.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:15 |
| S65 | 8 | 380/201.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:19 |
| S67 | . 0 | 382/276.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:17 |
| S68 | 1 | 380/202.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:19 |
| S69 | 5 | 380/203.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:22 |
| S70 | 0 | 380/204.ccls. and (watermark).clm. and (record\$).clm. and (playback). clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 16:28 |

| S72 | 939 | 380/201.ccls. | US-PGPUB; | OR | OFF | 2007/04/23 16:29 |
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| Į į | | | USPAT; | | | ļ |
| | | | USOCR; | | | |
| | e | | EPO; JPO; | | | |
| | | | DERWENT; | · | | |
| | | | IBM_TDB | | | |



November 1997 Communications of the ACM, Volume 40 Issue 11

Publisher: ACM Press

Full text available: pdf(1.70 MB)

Additional Information: full citation, citings, index terms

Digital watermarking makes its mark

Hal Berghel

September 1998 netWorker, Volume 2 Issue 4

Publisher: ACM Press

Full text available: 📆 pdf(617.64 KB) Additional Information: full citation, references, citings, index terms

Robust FPGA intellectual property protection through multiple small watermarks

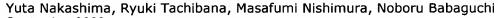
John Lach, William H. Mangione-Smith, Miodrag Potkonjak June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99

Publisher: ACM Press

Full text available: 7 pdf(119.08 KB) Additional Information: full citation, references, citings, index terms

Keywords: field programmable gate array (FPGA), intellectual property protection, watermarking

5 Applications I: Estimation of recording location using audio watermarking





Publisher: ACM Press

Full text available: pdf(209.98 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel application of audio watermarking, estimation of recording location. The purpose of the paper is to determine the seat location in a theater at which a bootleg recording was made by using a digital video camera. In the proposed application, we embed different watermarks in the channels of the multi-channel sound of the movie. The multi-channel sound enters the air from multiple loudspeakers in a theater. If a monaural recording of the sound is made, the location ...

Keywords: bootleg, digital audio watermarking, estimation, recording location

6 How watermarking adds value to digital content

John M. Acken

July 1998 Communications of the ACM, Volume 41 Issue 7

Publisher: ACM Press

Full text available: 1 pdf(273.94 KB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>,

<u>review</u>

7 Opportunities for watermarking standards

Fred Mintzer, Gordon W. Braudaway, Alan E. Bell July 1998 Communications of the ACM, Volume 41 Issue 7

Publisher: ACM Press

Full text available: pdf(672.37 KB)

Additional Information: full citation, references, citings, index terms,

<u>review</u>

8 Robust mesh watermarking

Emil Praun, Hugues Hoppe, Adam Finkelstein

July 1999 Proceedings of the 26th annual conference on Computer graphics and interactive techniques SIGGRAPH '99

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(2.08 MB) Additional Information: full citation, references, citings, index terms

Keywords: copyright protection, steganography

9 Demo session: XML data management: WmXML: a system for watermarking XML data

Xuan Zhou, HweeHwa Pang, Kian-Lee Tan, Dhruv Mangla

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(164.07 KB) Additional Information: full citation, abstract, references, index terms

As increasing amount of data is published in the form of XML, copyright protection of XML data is becoming an important requirement for many applications. While digital

watermarking is a widely used measure to protect digital data from copyright offences, the complex and flexible construction of XML data poses a number of challenges to digital watermarking, such as re-organization and alteration attacks. To overcome these challenges, the watermarking scheme has to be based on the usability of da ...

10 Detection of video sequences using compact signatures



Justin Zobel, Timothy C. Hoad

January 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(725.90 KB) Additional Information: full citation, abstract, references, index terms

Digital representations are widely used for audiovisual content, enabling the creation of large online repositories of video, allowing access such as video on demand. However, the ease of copying and distribution of digital video makes piracy a growing concern for content owners. We investigate methods for identifying coderivative video content---that is, video clips that are derived from the same original source. By using dynamic programming to identify regions of similarity in video signatures ...

Keywords: Video similarity detection, dynamic programming, local alignment

Security analysis II: Digital watermarking security considerations



Rade Petrovic, Babak Tehranchi, Joseph M. Winograd

September 2006 Proceeding of the 8th workshop on Multimedia and security MM&Sec

Publisher: ACM Press

Full text available: pdf(253.62 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we review our past experience with security of copy control audio watermarks, particularly related to SDMI. We also classify and analyze attacks published in literature and propose a number of security enhancement techniques for copy control and other digital watermarking applications. One type of security measure is based on uncoordinated selection of hiding places between embedders and extractors, with statistical analysis of expected matches. This approach reduces the repeatabi ...

Keywords: SDMI, copy control, digital rights management, digital watermarking, watermark attacks

12 Nark: receiver-based multicast non-repudiation and key management



Bob Briscoe, Ian Fairman

November 1999 Proceedings of the 1st ACM conference on Electronic commerce EC

Publisher: ACM Press

Full text available: pdf(168.86 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard, watermark

13 Watermarking: The effects of invisible watermarking on satellite image classification



Gregory L. Heileman, Yunlong Yang

October 2003 Proceedings of the 3rd ACM workshop on Digital rights management **DRM '03**

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms

Remotely sensed satellite images are an important source of geographical data commonly used as input for various types of classification algorithms. For example, these algorithms are commonly used to classify earth land cover, analyze crop conditions, assess mineral and petroleum deposits, and quantify urban growth. Many vendors of digital images are using or are considering the use of invisible watermarking as a means of protecting their images from theft or unauthorized usage. Indeed, the use ...

Keywords: classification, content protection, information hiding, satellite imagery, watermarking

Dynamic path-based software watermarking

C. Collberg, E. Carter, S. Debray, A. Huntwork, J. Kececioglu, C. Linn, M. Stepp June 2004 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04, Volume 39 Issue 6

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(282.11 KB) terms

Software watermarking is a tool used to combat software piracy by embedding identifying information into a program. Most existing proposals for software watermarking have the shortcoming that the mark can be destroyed via fairly straightforward semanticspreserving code transformations. This paper introduces path-based watermarking, a new approach to software watermarking based on the dynamic branching behavior of programs. The advantage of this technique is that error-correcting and tamper-proo ...

Keywords: software piracy, software protection, watermarking

15 Reconfigurable hardware solutions for the digital rights management of digital cinema



G. Rouvroy, F.-X. Standaert, F. Lefèbvre, J.-J. Quisquater, B. Macq, J.-D. Legat October 2004 Proceedings of the 4th ACM workshop on Digital rights management **DRM '04**

Publisher: ACM Press

Full text available: pdf(440.86 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a hardware implementation of a decoder for Digital Cinema images. This decoder enables us to deal with image size of 2K with 24 frames per second and 36 bits per pixels. It is the first implementation known nowadays that perfectly fits in one single Virtex-II® FPGA and includes AES decryption, JPEG 2000 decompression and fingerprinting blocks. This hardware offers therefore high-quality image processing as well as robust security.

Keywords: AES, DRM, FPGA, JPEG 2000, digital cinema, watermarking

16 FS2: dynamic data replication in free disk space for improving disk performance and



energy consumption

Hai Huang, Wanda Hung, Kang G. Shin

October 2005 ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue **Publisher: ACM Press**

Full text available: pdf(542.63 KB) Additional Information: full citation, abstract, references, index terms

Disk performance is increasingly limited by its head positioning latencies, i.e., seek time and rotational delay. To reduce the head positioning latencies, we propose a novel technique that dynamically places copies of data in file system's free blocks according to the disk access patterns observed at runtime. As one or more replicas can now be accessed in addition to their original data block, choosing the "nearest" replica that provides fastest access can significantly improve pe ...

Keywords: data replication, disk layout reorganization, dynamic file system, free disk space

17 Enabling the 21st century health care information technology revolution

Rakesh Agrawal, Tyrone Grandison, Christopher Johnson, Jerry Kiernan February 2007 Communications of the ACM, Volume 50 Issue 2

Publisher: ACM Press

Full text available: pdf(678.19 KB) Additional Information: full citation, abstract, references, index terms html(42.75 KB)

The U.S. government's vision of the health care information infrastructure is possible using technologies that support the sharing of medical e-records while maintaining patient privacy.

18 Watermarking: Words are not enough: sentence level natural language watermarking



Mercan Topkara, Umut Topkara, Mikhail J. Atallah

October 2006 Proceedings of the 4th ACM international workshop on Contents protection and security MCPS '06

Publisher: ACM Press

Full text available: pdf(283.99 KB) Additional Information: full citation, abstract, references, index terms

Compared to other media, natural language text presents unique challenges for information hiding. These challenges require the design of a robust algorithm that can work under following constraints: (i) low embedding bandwidth, i.e., number of sentences is comparable with message length, (ii) not all transformations can be applied to a given sentence (iii) the number of alternative forms for a sentence is relatively small, a limitation governed by the grammar and vocabulary of the natural langua ...

Keywords: natural language watermarking

19 Special issue on independent components analysis: ICA for watermarking digital

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: pdf(554.76 KB) Additional Information: full citation, abstract, citings, index terms

We present a domain-independent ICA-based approach to watermarking. This approach can be used on images, music or video to embed either a robust or fragile watermark.In the case of robust watermarking, the method shows high information rate and robustness against malicious and non-malicious attacks, while keeping a low induced distortion. The fragile watermarking scheme, on the other hand, shows high sensitivity to tampering attempts while keeping the requirement for high information rate and lo ...

20 An abstract interpretation-based framework for software watermarking



Patrick Cousot, Radhia Cousot



January 2004 ACM SIGPLAN Notices, Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '04, Volume 39

Publisher: ACM Press

Full text available: pdf(171.12 KB)

Additional Information: full citation, abstract, references, citings, index terms

Software watermarking consists in the intentional embedding of indelible stegosignatures or watermarks into the subject software and extraction of the stegosignatures embedded in the stegoprograms for purposes such as intellectual property protection. We introduce the novel concept of abstract software watermarking. The basic idea is that the watermark is hidden in the program code in such a way that it can only be extracted by an abstract interpretation of the (maybe non-standard) concre ...

Keywords: abstract interpretation, authentication, copyrights protection, fingerprinting, identification, intellectual property protection, obfuscation, software authorship, software watermarking, static analysis, steganography, stegoanalyst, stegoattacks, stegokey, stegomark, stegosignature, tamper-proofing, trustworthiness, validation watermarking

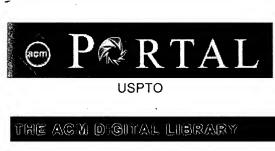
Results 1 - 20 of 200

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Technical trials and legal tribulations Scott Craver, Boon-Lock Yeo, Minerva Yeung

July 1998 Communications of the ACM, Volume 41 Issue 7

Publisher: ACM Press

Full text available: pdf(641.01 KB)

Additional Information: full citation, references, citings, index terms,

review

Applications I: Estimation of recording location using audio watermarking

Yuta Nakashima, Ryuki Tachibana, Masafumi Nishimura, Noboru Babaguchi



Publisher: ACM Press

Full text available: 🔁 pdf(209.98 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel application of audio watermarking, estimation of recording location. The purpose of the paper is to determine the seat location in a theater at which a bootleg recording was made by using a digital video camera. In the proposed application, we embed different watermarks in the channels of the multi-channel sound of the movie. The multi-channel sound enters the air from multiple loudspeakers in a theater. If a monaural recording of the sound is made, the location ...

Keywords: bootleg, digital audio watermarking, estimation, recording location

Robust FPGA intellectual property protection through multiple small watermarks



June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99

Publisher: ACM Press

Full text available: Dpdf(119.08 KB) Additional Information: full citation, references, citings, index terms

Keywords: field programmable gate array (FPGA), intellectual property protection, watermarking

4 Robust mesh watermarking

Emil Praun, Hugues Hoppe, Adam Finkelstein

July 1999 Proceedings of the 26th annual conference on Computer graphics and interactive techniques SIGGRAPH '99

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(2.08 MB) Additional Information: full citation, references, citings, index terms

Keywords: copyright protection, steganography

5 <u>Demo session: XML data management: WmXML: a system for watermarking XML</u> data

Xuan Zhou, HweeHwa Pang, Kian-Lee Tan, Dhruv Mangla

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(164.07 KB) Additional Information: full citation, abstract, references, index terms

As increasing amount of data is published in the form of XML, copyright protection of XML data is becoming an important requirement for many applications. While digital watermarking is a widely used measure to protect digital data from copyright offences, the complex and flexible construction of XML data poses a number of challenges to digital watermarking, such as re-organization and alteration attacks. To overcome these challenges, the watermarking scheme has to be based on the usability of da ...

6 Opportunities for watermarking standards

Fred Mintzer, Gordon W. Braudaway, Alan E. Bell July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

Full text available: pdf(672.37 KB)

Additional Information: full citation, references, citings, index terms, review

7 Special issue on independent components analysis: ICA for watermarking digital images

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press

Full text available: 🔂 pdf(554.76 KB) Additional Information: full citation, abstract, citings, index terms

We present a domain-independent ICA-based approach to watermarking. This approach can be used on images, music or video to embed either a robust or fragile watermark.In the case of robust watermarking, the method shows high information rate and robustness against malicious and non-malicious attacks, while keeping a low induced distortion. The fragile watermarking scheme, on the other hand, shows high sensitivity to tampering attempts while keeping the requirement for high information rate and lo ...

8 Watermarking: The effects of invisible watermarking on satellite image classification

Gregory L. Heileman, Yunlong Yang
October 2003 Proceedings of the 3rd ACM workshop on Digital rights management
DRM '03

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index

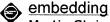
terms

Remotely sensed satellite images are an important source of geographical data commonly used as input for various types of classification algorithms. For example, these algorithms are commonly used to classify earth land cover, analyze crop conditions, assess mineral and petroleum deposits, and quantify urban growth. Many vendors of digital images are using or are considering the use of invisible watermarking as a means of protecting their images from theft or unauthorized usage. Indeed, the use ...

Keywords: classification, content protection, information hiding, satellite imagery, watermarking

9 Robust digital watermarking: The digital watermarking container: secure and efficient





Martin Steinebach, Sascha Zmudzinski, Fan Chen

September 2004 Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04

Publisher: ACM Press

Full text available: pdf(357.96 KB)

Additional Information: full citation, abstract, references, citings, index terms

While acceptance of digital watermarking as a technology to protect digital media is constantly increasing, integrated applications are still comparatively rare. Two reasons are the challenge of secure key handling due to the symmetric nature of digital watermarking and the often high demand regarding computational power to embed a watermarking into a media file. We introduce a possible solution to this problem, the digital watermarking container. It splits the watermarking process in a preproce ...

Keywords: complexity, container, optimization, security, watermarking

10 Watermarking: Words are not enough: sentence level natural language watermarking



Mercan Topkara, Umut Topkara, Mikhail J. Atallah

October 2006 Proceedings of the 4th ACM international workshop on Contents protection and security MCPS '06

Publisher: ACM Press

Full text available: pdf(283.99 KB) Additional Information: full citation, abstract, references, index terms

Compared to other media, natural language text presents unique challenges for information hiding. These challenges require the design of a robust algorithm that can work under following constraints: (i) low embedding bandwidth, i.e., number of sentences is comparable with message length, (ii) not all transformations can be applied to a given sentence (iii) the number of alternative forms for a sentence is relatively small, a limitation governed by the grammar and vocabulary of the natural langua ...

Keywords: natural language watermarking

11 Watermarking: Watermarking of MPEG-2 video in compressed domain using VLC





Bijan G. Mobasseri, Michael P. Marcinak

August 2005 Proceedings of the 7th workshop on Multimedia and security MM&Sec '05

Publisher: ACM Press

Full text available: pdf(258.86 KB) Additional Information: full citation, abstract, references, index terms

In this work we propose a new algorithm for fragile, high capacity yet file-size preserving

watermarking of MPEG-2 streams. Watermarking is done entirely in the compressed domain, with no need for full or even partial decompression. The algorithm is based on a previously developed concept of VLC mapping for compressed domain watermarking. The entropy-coded segment of the video is first parsed out and then analyzed in pairs. It is recognized that there are VLC pairs that never appear together in ...

Keywords: MPEG-2, compressed domain, variable length code

12 An abstract interpretation-based framework for software watermarking

Patrick Cousot, Radhia Cousot

January 2004 ACM SIGPLAN Notices, Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '04, Volume 39

Publisher: ACM Press

Full text available: pdf(171.12 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Software watermarking consists in the intentional embedding of indelible stegosignatures or watermarks into the subject software and extraction of the stegosignatures embedded in the stegoprograms for purposes such as intellectual property protection. We introduce the novel concept of abstract software watermarking. The basic idea is that the watermark is hidden in the program code in such a way that it can only be extracted by an abstract interpretation of the (maybe non-standard) concre ...

Keywords: abstract interpretation, authentication, copyrights protection, fingerprinting, identification, intellectual property protection, obfuscation, software authorship, software watermarking, static analysis, steganography, stegoanalyst, stegoattacks, stegokey, stegomark, stegosignature, tamper-proofing, trustworthiness, validation watermarking

13 Watermarking cyberspace

Hal Berghel

November 1997 Communications of the ACM, Volume 40 Issue 11

Publisher: ACM Press

Full text available: pdf(1.70 MB) Additional Information: full citation, citings, index terms

14 <u>Digital watermarking makes its mark</u>

Hal Berghel

September 1998 netWorker, Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(617.64 KB) Additional Information: full citation, references, citings, index terms

15 Nark: receiver-based multicast non-repudiation and key management

簈 Bob Briscoe, Ian Fairman

November 1999 Proceedings of the 1st ACM conference on Electronic commerce EC

Publisher: ACM Press

Full text available: pdf(168.86 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard,

watermark

¹⁶ Fingerprinting intellectual property using constraint-addition



Gang Qu, Miodrag Potkonjak

June 2000 Proceedings of the 37th conference on Design automation DAC '00 Publisher: ACM Press

Full text available: pdf(123.86 KB)

Additional Information: full citation, abstract, references, citings, index terms

Recently, intellectual property protection (IPP) techniques attracted a great deal of attention from semiconductor, system integration and software companies. A number of watermarking-based techniques have been proposed for IPP. One of the key limitations of watermarking is that it does not facilitate tracing of illegally resold intellectual property (IP). Fingerprinting resolves this problem by providing each customer with a unique instance of functionally identical IP. We propose ...

17 Poster session 2: VLSI CAD tool protection by birthmarking design solutions



Lin Yuan, Gang Qu, Ankur Srivastava

April 2005 Proceedings of the 15th ACM Great Lakes symposium on VLSI GLSVSLI '05

Publisher: ACM Press

Full text available: pdf(53.38 KB) Additional Information: full citation, abstract, references, index terms

Many techniques have been proposed in the past for the protection of VLSI design IPs (intellectual property). CAD tools and algorithms are intensively used in all phases of modern VLSI designs; however, little has been done to protect them. Basically, given a problem P and a solution Σ , we want to be able to determine whether Σ is obtained by a particular tool or algorithm. We propose two techniques that intentionally leave some trace or birthmark, which refers to cer ...

Keywords: CAD, birthmarking, intellectual property, protection

18 Data security and protection: Rights protection for relational data



Radu Sion, Mikhail Atallah, Sunil Prabhakar

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03

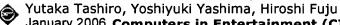
Publisher: ACM Press

Full text available: pdf(229.76 KB)

Additional Information: full citation, abstract, references, citings, index terms

Protecting rights over relational data is of ever increasing interest, especially considering areas where sensitive, valuable content is to be outsourced. A good example is a data mining application, where data is sold in pieces to parties specialized in mining it.Different avenues for rights protection are available, each with its own advantages and drawbacks. Enforcement by legal means is usually ineffective in preventing theft of copyrighted works, unless augmented by a digital counter ...

19 <u>Video services: NTT's technologies for next-generation video services</u>



January 2006 Computers in Entertainment (CIE), Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, index terms

This article presents some examples of video content delivery and two-way video communication services and describes current trends in the digital media technology supporting these services. It also describes NTT's research efforts in subjects such as video coding and introduces our vision of business services that combine high-quality secure video delivery with high added-value processing.

Keywords: H.264, IP network, MPEG-2, MPEG-4/AVC, business application, image compression, network, secure video, video CODEC, video decoder, video distribution, video encoder, video service, watermark

20 Reconfigurable hardware solutions for the digital rights management of digital cinema



G. Rouvroy, F.-X. Standaert, F. Lefèbvre, J.-J. Quisquater, B. Macq, J.-D. Legat October 2004 Proceedings of the 4th ACM workshop on Digital rights management **DRM '04**

Publisher: ACM Press

Full text available: pdf(440.86 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a hardware implementation of a decoder for Digital Cinema images. This decoder enables us to deal with image size of 2K with 24 frames per second and 36 bits per pixels. It is the first implementation known nowadays that perfectly fits in one single Virtex-II® FPGA and includes AES decryption, JPEG 2000 decompression and fingerprinting blocks. This hardware offers therefore high-quality image processing as well as robust security.

Keywords: AES, DRM, FPGA, JPEG 2000, digital cinema, watermarking

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1. A blind watermarking algorithm with semantic meaningful watermarks

Chun-Hsiang Huang; Ja-Ling Wu; Ding-Yun Chen;

Signals, Systems and Computers, 2000. Conference Record of the Thirty-Four

Conference on

Volume 2, 29 Oct.-1 Nov. 2000 Page(s):1827 - 1830 vol.2 Digital Object Identifier 10.1109/ACSSC.2000.911303

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2. Semi-blind image restoration based on telltale watermarking П

Kundur, D.; Hatzinakos, D.:

Signals, Systems & Computers, 1998. Conference Record of the Thirty-Second

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Volume 2, 1-4 Nov. 1998 Page(s):933 - 937 vol.2

Digital Object Identifier 10.1109/ACSSC.1998.751399

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3. A secure, imperceptible yet perceptually salient, spread spectrum watern

multimedia

Cox, I.J.; Kilian, J.; Leighton, T.; Shamoon, T.; Southcon/96. Conference Record

25-27 June 1996 Page(s):192 - 197

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| IET JNL | IET Journal or Magazine | | |
| IEEE CNF | IEEE Conference Proceeding | 1. Improved bit rate control for real-time MPEG watermarking Pranata, S.; Guan, Y.L.; Chua, H.C.; Image Processing, 2004. ICIP '04. 2004 International Conference on | |
| IET CNF | IET Conference Proceeding | Volume 4, 24-27 Oct. 2004 Page(s):2619 - 2623 Vol. 4 Digital Object Identifier 10.1109/ICIP.2004.1421641 | |
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| | | 2. Efficient detection of a spatial spread-spectrum watermark in MPEG vide Kalker, T.; Haitsma, J.; Image Processing, 2000. Proceedings. 2000 International Conference on Volume 1, 10-13 Sept. 2000 Page(s):434 - 437 vol.1 Digital Object Identifier 10.1109/ICIP.2000.900988 AbstractPlus Full Text: PDF(348 KB) IEEE CNF Rights and Permissions | • |
| | | 3. Lights, camera, controls! [DVD copying prevention] Geier, M.J.; Spectrum, IEEE Volume 40, Issue 5, May 2003 Page(s):28 - 31 Digital Object Identifier 10.1109/MSPEC.2003.1197474 AbstractPlus Full Text: PDF(359 KB) IEEE JNL Rights and Permissions | |
| | | 4. VBR video: tradeoffs and potentials Lakshman, T.V.; Ortega, A.; Reibman, A.R.; Proceedings of the IEEE Volume 86, Issue 5, May 1998 Page(s):952 - 973 Digital Object Identifier 10.1109/5.664282 AbstractPlus References Full Text: PDF(260 KB) IEEE JNL Rights and Permissions | |
| | | 5. A loss resilient and scalable streaming media authentication scheme | |

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Voyatzis, G.; Pitas, I.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1197 - 1207 Digital Object Identifier 10.1109/5.771072 AbstractPlus | References | Full Text: PDF(324 KB) | IEEE JNL Rights and Permissions 14. Watermarking as communications with side information Cox, I.J.; Miller, M.L.; McKellips, A.L.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1127 - 1141 Digital Object Identifier 10.1109/5.771068 AbstractPlus | References | Full Text: PDF(284 KB) | IEEE JNL Rights and Permissions 15. Copy protection for DVD video Bloom, J.A.; Cox, I.J.; Kalker, T.; Linnartz, J.-P.M.G.; Miller, M.L.; Traw, C.B.S Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1267 - 1276 Digital Object Identifier 10.1109/5.771077 AbstractPlus | References | Full Text: PDF(152 KB) | IEEE JNL Rights and Permissions 16. Digital watermarking for telltale tamper proofing and authentication Kundur, D.; Hatzinakos, D.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1167 - 1180 Digital Object Identifier 10.1109/5.771070 AbstractPlus | References | Full Text: PDF(644 KB) | IEEE JNL Rights and Permissions 17. Multimedia watermarking techniques Hartung, F.; Kutter, M.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1079 - 1107 Digital Object Identifier 10.1109/5.771066 AbstractPlus | References | Full Text: PDF(1372 KB) | IEEE JNL Rights and Permissions 18. Information hiding-a survey Petitcolas, F.A.P.; Anderson, R.J.; Kuhn, M.G.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1062 - 1078 Digital Object Identifier 10.1109/5.771065 AbstractPlus | References | Full Text: PDF(496 KB) | IEEE JNL Rights and Permissions 19. Statistical analysis of watermarking schemes for copyright protection of П Hernandez, J.R.; Perez-Gonzalez, F.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1142 - 1166 Digital Object Identifier 10.1109/5.771069 AbstractPlus | References | Full Text: PDF(1024 KB) | IEEE JNL Rights and Permissions 20. Perceptual watermarks for digital images and video Wolfgang, R.B.; Podilchuk, C.I.; Delp, E.J.; Proceedings of the IEEE Volume 87, Issue 7, July 1999 Page(s):1108 - 1126

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